

## CLAIMS

1. A disk playback apparatus that reads data recorded on a disk and generates playback data, the disk playback apparatus being characterized by comprising:
  - 5 detection means for detecting a predetermined synchronization pattern contained in the data and for identifying a detection timing;
    - selection means for selectively extracting a part of data one by one out of the data read from the disk according to the detection timing identified by the detection means;
  - 10 composite means for composing a plurality of data extracted by the selection means, so as to generate a composite data; and
    - replacement means for replacing the composite data with a corresponding demodulation data so as to generate the playback data.
- 15 2. The disk playback apparatus according to Claim 1, wherein:
  - the detection means detects the synchronization pattern from data series read in a plurality of continuous cycles, and identifies the detection timing according to a position of the synchronization pattern contained in the series.
- 20 3. The disk playback apparatus according to Claim 1, wherein:
  - the selection means includes:
    - initial value storage means for storing an initial value according to the detection timing,
    - counting means for loading the initial value according to the detection timing from the initial value storage means, and counting the number of clocks of an internal clock signal from the initial value; and
    - the selection means selectively extract parts of data one by one out of the data read from the disk, according to a count value in the counting means.
- 30 4. The disk playback apparatus according to Claim 3, wherein:
  - the composite means include a first and second data storage means;

each of the first and second data storage means holds the data extracted by the selection means if the count value is even, and the data currently held at the second data storage means is moved to the first data storage means if the count value is odd, whereby the composite data is generated.

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5. A disk playback method for reading data recorded on a disk and generating a playback data, the disk playback method being characterized by comprising:

a detection step of detecting a predetermined synchronization pattern contained in the data and identifying a detection timing;

10 a selection step of selectively extracting a part of data one by one out of the data read from the disk according to the identified detection timing;

a composite step of composing a plurality of data extracted in the selection step so as to generate a composite data; and

15 a replacement step of replacing the composite data by a corresponding demodulation data so as to generate the playback data.

6. The disk playback method according to Claim 5, wherein:

in the detection step, the synchronization pattern is detected from the data series read during a plurality of continuous cycles and the detection timing is

20 identified according to a position of the synchronization pattern contained in the series.

7. The disk playback method according to Claim 5, wherein:

25 in the selection step, a part of data is selectively extracted one by one out of the data read from the disk according to a count value acquired by counting the number of clocks of the internal clock signal from an initial value in accordance with the detection timing.

8. The disk playback method according to Claim 7, wherein:

30 in the composite step, the extracted data is respectively held in the first and second data storage means in the selection step if the count value is even, and the

data currently held at the second data storage means is moved to the first data storage means if the count value is odd, thereby generating the composite data.